

# LC6B Benchttop Conveyor

The LC6B Benchttop Conveyor is a production UV curing unit that is suitable for laboratory and R&D applications. It can also be used in testing of adhesives, inks and coatings for qualification, cure response testing, or performance evaluation.

It can handle a variety of substrates up to 7-1/2 inches wide with an effective curing width up to 6 inches. The lamp and housing are adjustable to accommodate parts up to 3 inches high.

With the compact Fusion UV model F300 lamp system, the LC6B offers an ideal curing system for small production parts. A unique and simple mechanism allows the lamp to be rotated and set to any angle to part travel, or raised and lowered to vary its distance from the part.

The LC6B uses air flowing through the belt to provide cooling and to help keep small sheets or parts in place throughout the curing process. An internal exhaust blower assists with cooling. The one-piece molded housing provides easy access to internal components.

The specially designed open-weave Kevlar® belt is Teflon® coated for smooth performance, and treated to eliminate static charges. The unique seam design provides an essentially uninterrupted belt surface.

There is a choice of 4 models and speed ranges from 0.3 to 250 feet per minute (0.1 to 75 m/min). Speed is displayed by a digital speed indicator on the front panel.

A convenient lamp control switch is also located on the front panel, with a zero-speed sensor incorporated, to provide lamp control and protection for the belt.



## Specifications: LC6B

**Nominal Width:** 6" (152 mm).

**Lamp Position:** Rotatable, 360°; vertical adjustment from focus at belt surface to 4" (100 mm) beyond focus.

**Overall Length:** 42" (1070 mm).

**Overall Width:** 20" (510 mm).

**Overall Height:** Without lamp: 12.2" (310 mm); with lamp: 27.4" (695 mm).

**Weight:** Without lamp: 55 lbs. (25 kg).

**Belt:** .25" weave Teflon®-coated Kevlar® fiber, carbon-impregnated, with unique fold-back loop seam.

**Direction of Belt Travel:** Right-to-left, standard.

**Speed Indicator:** Digital, in ft/min or m/min.

**Speed Ranges:** Two Models: Low Speed Range 0.3 to 23 ft/min (0.5 - 7 m/min), Standard Speed Range 16 to 250 ft/min (2 - 70 m/min).

**Drive:** PMDC gearmotor; Synchronous belt drive; interchangeable pulleys provide two ranges for each model, low speed and standard speed.

**Controls:** Power on/off, speed adjust, lamp on/off.

**Interconnections:** Lamp on/off (incorporates zero-speed switch).

**Exhaust Blower:** Included -internal.

**Fasteners:** Metric.

**Power:** 117/230 VAC, single phase, 50/60 Hz, internally selected. IEC style power connection, with power switch.

## Options Available

Low speed or standard speed model.

Recommended: Snap-on end light shields. Choose from top-access or end-access styles.

Exhaust duct transition.

Quartz plate air deflectors.

External end reflectors.

Left-to-right belt travel (opposite direction).

Special belts for small parts.

Stainless steel mesh belt.

Adaptable to hold 2 lamps (without rotatable feature).

For more information about the Model F300S lamp system, refer to the F300S Sales Bulletin.

**Lamp:** One Model F300SB (with blower) or Model F300SR (for remote blower), purchased separately.

**Lamp requires:** 200-230V; see F300S Bulletin. Lamp system sold separately.

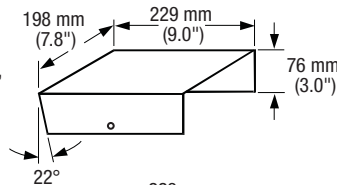
# Accessories for LC6B

## SNAP-IN LIGHTSHIELDS

- Select style appropriate for items to be cured.
- Lightshields are interchangeable for infeed or outfeed end.

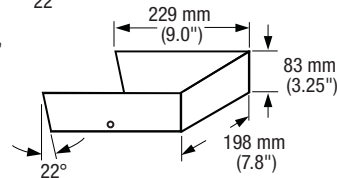
### Tunnel Style Shield:

Material: GE #713 'grey' tint polycarbonate, .125" (3 mm) thick.



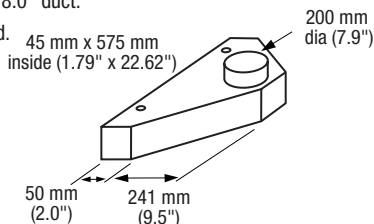
### 'Box End' Style Shield:

Material: GE #713 'grey' tint polycarbonate, .125" (3 mm) thick.



## EXHAUST DUCT TRANSITION

- Connects rear exhaust to 200 mm or 8.0" duct.
- Can be installed upward or downward.
- Material: 0.060" aluminum.



## REPLACEMENT BELTS

- Teflon®-coated .25" weave Kevlar®, with conductive (anti-static) coating; fold-back loop seam. (Original replacement).
- Teflon®-coated .25" weave Kevlar®, with conductive (anti-static) coating, and 3" wide tight-weave center strip for small parts; fold-back loop seam.
- Flexible stainless steel belt, Teflon® slider guides, and roller modifications. Available as a retrofit kit.
- Stainless steel; (Not for use with standard slider bed. NOTE: Conveyor must be modified to use this belt).

## MISCELLANEOUS

**Air Deflector:** Quartz plate holder with 6" x 6" high grade (very short wavelength transmission) quartz plate. For diverting air flow from lightweight parts (not for heat control). Fits into lamp holder.

**Feed Chute:** A 6" x 8" platform which clips to infeed or outfeed end to facilitate loading or unloading of parts. Material: stainless steel.

**Knife, Outfeed:** Floats at LC-6 outfeed to remove small parts or sheets from conveyor belt. Machined from black Delrin®.

### Speed ranges available on the LC6B are as follows:

#### Low Speed Conveyor Model:

0.3 ft/min - 7.2 ft/min	slow pulley set-up
3.3 ft/min - 23 ft/min	pulley set-up, as supplied

#### Standard Speed Conveyor Model:

16 ft/min - 75 ft/min	slow pulley set-up
50 ft/min - 250 ft/min	pulley set-up, as supplied

The difference between the two models is the gearhead drive motor installed.

Contact your local Fusion UV office for an engineered solution for your specific requirements.



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